The heat transmitted per hour

or, S (* . - /|)

Ktn,

Sectional area through tubes available for water flow

n 7T <. M sq. it.
4 144

.'. 3600 vn » ~ f>
4 144

or n 4 x 144 X W
3600 X r7rd.>~i>'

But, S (a-;/)/™'1 sq. ft.,

07/TTY/i or / .- I.2H •• : - - ft.

Or, inserting for value of //, 128
4 X I44W T

For example, taking the conditions given in the calculation on p. 231, where T_s = 105° F., ^ ^ 76° F.,/$_2$: 95° F$_M$ and taking w 20,000 Ib. of exhaust steam per hour, K = 600, ?> 5 ft. per second,

then, * ^ 95 ?6 1-0647 18" F.
10r .... -jO
lot;
"" 105. 95

From the example on p. 231,

W = 50 x 20,000,

= 1,000,000 Ib. per hour.

S — II^0^!?^? X r?
600 x 18 *

== 1760 sq. ft.

Assuming the condenser has 3 passes, and the tubes f in. outside diameter, and, say, 0-65 in. diameter inside,